AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1.   (Previously presented) A method to create data transformation routines for binary data to transform said data from a source format to a target format, the method comprising the steps of:

a) generating a source model of a source format element;

b) generating a target model of a target format element;

c) generating a mapping between said source model and said target model, wherein the mapping accounts for differences in endianness between the source and target models; and

d) generating a transformation routine based on said mapping for extracting data from said source element and depositing said data in said target element.

2.   (Previously Presented) A method according to claim 1 in which target models generate a plurality of target elements and a mapping generated between the source model and said plurality of target models.

3.   (Previously Presented) A method according to claim 1 in which source models generate a plurality of source elements and a mapping generated between said plurality of source models and said target model.

4.   (Previously Presented) A method according to claim 1 in which said transformation routine is arranged to transform data in software code instructions from a source format code to a target format code and said routines are generated in said target format code.

5.   (Cancelled)

6.   (Original) A method according to claim 4 in which the transformation routine is executed at the runtime of a program in said source code.

7.   (Previously Presented) A method according to claim 1 in which said target and source models relate bit positions to variable names for any given instruction.

8.   (Previously presented) A method according to claim 1 in which a group of source models and target models are provided wherein one or more models are applied to a plurality of respective source or target instructions.

9.   (Original) A method according to claim 4 in which said transformation routine is associated with a template providing a set of target format instructions semantically equivalent to said identified source instruction.

10.   (Previously Presented) A method according to claim 1 in which the transformation routine is arranged to transform data from a database between a source database format to a target database format.

11.   (Previously presented) A computer apparatus including a binary translator to create transformation routines to transform data from a source format to a target format, the apparatus comprising:

        a) a source model of a source element;

        b) a target model of a target element;

        c) a mapping between said source model and said target model, wherein the mapping accounts for differences in endianness between the source and target models; and

        d) a routine generator for generating a transformation routine based on said mapping for extracting data from said source element and depositing said data in the target element.

12.   (Original) Apparatus according to claim 11 further comprising target models for a plurality of target elements and a mapping between the source model and said plurality of target models.

13.   (Original) Apparatus according to claim 11 further comprising source models for a plurality of source elements and a mapping between said plurality of source models and said target model.

14.   (Previously Presented) A method according to claim 11 in which said transformation routine is arranged to transform data in software code instructions from a source format code to a target format code and said routines are generated in said target format code.

15.   (Cancelled)

16.   (Original) Apparatus according to claim 14 in which the transformation routine is executed at the runtime of a program in said source code.

17.   (Original) Apparatus according to claim 11 in which said models relate bit positions to variable names for any given instruction.

18.   (Previously presented)Apparatus according to claim 11 in which a group of source models and target models are provided wherein one or more models are applied to a plurality of respective source or target instructions.

19.   (Original) Apparatus according to claim 14 in which said transformation routine is associated with a template providing a set of target format instructions semantically equivalent to said identified source instruction.

20.   (Original) Apparatus according to claim 11 in which the transformation routine is arranged for transforming data from a database between a source database format to a target database format.

21.   (Previously Presented) A computer program embedded in a computer-readable medium to transform data from a source instruction to a target instruction, in accordance with the method of claim 1.

22.   (Original) A computer program according to claim 21 in which said transformation routines are implemented as routines in said computer program.

23.   (Original) A computer program according to claim 21 operable to carry out said transformation at said runtime of a program in said source format.